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FILE 'HOME' ENTERED AT 15:12:20 ON 03 APR 2003

=> s Merrill, Edward W./in

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FILE 'EUROPATFULL' ENTERED AT 15:13:05 ON 03 APR 2003

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CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY ACS

FILE 'USPAT2' ENTERED AT 15:13:05 ON 03 APR 2003

CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY ACS

s Merrill, Edward W./in

11 s MERRILL, EDWARD W. IN

s 11 and high molecular weight polyethylene

11 11 AND HIGH MOLECULAR WEIGHT POLYETHYLENE

s 12 and medical implant#

12 12 AND MEDICAL IMPLANT#

d 12 1-8

Full
Text

11 11 AND HIGH MOLECULAR WEIGHT POLYETHYLENE
 12 12 AND MEDICAL IMPLANT#

O'CONNOR, Daniel;
MERRILL, Edward, W.;
 VENUGOPALAN, Premnath;
 BRADON, Charles
 1A THE GENERAL HOSPITAL CORPORATION;
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY;
 HARRIS, William, H.;
 CASTY, Murali;
 MURATOGULU, Cihun;
 O'CONNOR, Daniel;
 MERRILL, Edward, W.;
 VENUGOPALAN, Premnath;
 BRADON, Charles
 DT Patent
 PI WO 200005387 A1 20010125
 DS WI AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
 FI GB GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LP
 LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI
 SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW GH GM KE LS
 MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE
 DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA
 GN GW ML MR NE SN TD TG
 AI WO 1999-US14070 A 19990716
 ICM A&I-PUB-32

L2 ANSWER 2 OF 8 PCTFULL COPYRIGHT 2003 Univentio

Full
Text

AN 1997019793 PCTFULL ED 20020514
 TIEN RADIATION AND MELT TREATED ULTRA **HIGH MOLECULAR WEIGHT**
POLYETHYLENE PROSTHETIC DEVICES
 TIFR DISPOSITIFS DE PROTHESE A BASE DE POLYETHYLENE A POIDS MOLECULAIRE TRES
 ELEVE, TRAITES PAR FUSION ET RAYONNEMENT
 IN **MERRILL, Edward, W.;**
 HARRIS, William, H.;
 CASTY, Murali;
 MURATOGULU, Cihun;
 BRADON, Charles, R.;
 O'CONNOR, Daniel, O.;
 VENUGOPALAN, Premnath
 PA MASSACHUSETTS INSTITUTE OF TECHNOLOGY;
 THE GENERAL HOSPITAL CORPORATION
 LA EN 1997
 DT Patent
 PI WO 1999-US14070 A 19990716
 DS WI AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
 FI GB GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LP
 LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI
 SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW GH GM KE LS
 MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH
 DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM
 GA GN GW ML MR NE SN TD TG
 AI WO 1999-US14070 A 19990716
 ICM A&I-PUB-32

Full
Text

AN 1997019793 PCTFULL
 TI Polyethylene High Molecular Weight
 IN Merrill Edward W.

IA Massachusetts Institute of Technology, Cambridge, MA, United States
 (U.S. Corporation)
 PI US 65 111 111 B1 2 11 111
 AI US 19 111 111 111 111 111 111
 IT 111 111
 FS 111 111
 LN.CNT 111
 INCL INCLM: 411 413.000
 INCIS: 411 500.000; 428/515.000; 428/516.000; 428/522.000; 428/523.000;
 411 333.000; 428/515.000; 351/166.000R; 351/166.000H;
 111 166.000; 427/498.000; 427/499.000; 427/499.000
 NCL INCLM: 411 413.000
 NCLM: 111 166.000; 427/498.000; 427/499.000; 427/499.000; 428/333.000;
 411 500.000; 428/515.000; 428/516.000; 428/522.000; 428/522.000
 IC [7]
 ICM: B1B17-38
 EXF 111 111H; 111/160R; 351/166; 428/500; 428/515; 428/516; 428/333;
 418 411; 411/520; 428/522; 427/2.1; 427/2.12; 427/402; 427/496; 427/498;
 427/499; 428/36
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 4 OF 5 USPATFULL

Full
Text

AN 1001:11111 USPATFULL
 TI Radiation and melt treated ultra high molecular weight
 polyethylene prosthetic device
 IN Merrill, Edward W., Blement, MA, UNITED STATES
 Harris, William H., Blement, MA, UNITED STATES
 Jasty, Marali, Weston, MA, UNITED STATES
 Mirallegre, Orhun, Cambridge, MA, UNITED STATES
 Bragdon, Charles R., Weymouth, MA, UNITED STATES
 O'Connor, Daniel O., East Taunton, MA, UNITED STATES
 Venugopal, Premnath, Chennai, INDIA
 PI US 111 111 111 AI 20030116
 AI US 111 111 111 AI 20020718 (10)
 RLI Continuation of Ser. No. US 2001-764445, filed on 19 Jan 2001, PENDING
 Continuation of Ser. No. US 2000-572324, filed on 18 May 2000, ABANDONED
 Continuation of Ser. No. US 1997-798638, filed on 11 Feb 1997, ABANDONED
 Continuation-in-part of Ser. No. US 1996-726313, filed on 2 Oct 1996,
 ABANDONED Continuation-in-part of Ser. No. US 1996-600744, filed on 13
 Feb 1996, 111 111, Pat. No. US 5878449

IT 111 111
 FS 111 111

LN.CNT 111
 INCL INCLM: 111 111
 NCL INCLM: 111 111

IC [7]
 ICM: 111 111-2

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 11 OF 11 USPATFULL

Full
Text

Merrill, Edward W.
 Harris, William H.
 Jasty, Marali, Weston, MA, United States
 Mirallegre, Orhun, Cambridge, MA, United States
 Bragdon, Charles R., Weymouth, MA, United States
 O'Connor, Daniel O., East Taunton, MA, United States
 Venugopal, Premnath, Chennai, India

corporation,
Massachusetts Institute of Technology, Cambridge, MA, United States
(U.S. corporation)

PI US 5444826 B1 20021015
AI US 5444826 20021015
PLI Continuation of Ser. No. US 1999-59422, filed on 14 Apr 1999, now
Abandoned Division of Ser. No. US 1996-60744, filed on 13 Feb 1996, now
patented, Pat. No. US 5878400, issued on 9 Mar 1999
DT Utility
FS GRANTED
LN.CNT 113
INCL INCL1: 164/485.000
INCL3: 164/162.000; 264/237.000; 264/488.000
NCL NCL1: 164/485.000
NCL3: 164/162.000; 264/237.000; 264/488.000
IC [7]
ICM: 8280015-08
EXF 164/37; 164/162; 264/237; 264/485; 264/488
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 1 OF 9 USPATFULL

Full
Text

References

AN 20021015 USPATFULL
TI Radiation and melt treated ultra high molecular weight
polyethylene prosthetic devices
IN Merrill, Edward W., Belmont, MA, UNITED STATES
Harris, William H., Belmont, MA, UNITED STATES
Jasty, Murali, Weston, MA, UNITED STATES
Muratoglu, Orkun, Cambridge, MA, UNITED STATES
Bragdon, Charles R., Weymouth, MA, UNITED STATES
O'Connor, Daniel O., East Taunton, MA, UNITED STATES
Venugopalan, Premnath, Mugappair, INDIA
PI US 20007113 AI 20020117
AI US 2001-784443 AI 20010119 (9)
PLI Continuation of Ser. No. US 2000-572324, filed on 18 May 2000, ABANDONED
Continuation of Ser. No. US 1997-798638, filed on 11 Feb 1997, ABANDONED
Continuation-in-part of Ser. No. US 1996-726313, filed on 2 Oct 1996,
ABANDONED Continuation-in-part of Ser. No. US 1996-60744, filed on 13
Feb 1996, GRANTED, Pat. No. US 5878400
DT Utility
FS APPLICATION
LN.CNT 113
INCL INCL1: 164/485.000
INCL3: 164/162.000; 264/237.000; 264/488.000
NCL NCL1: 164/485.000
NCL3: 164/162.000; 264/237.000; 264/488.000
IC [7]
ICM: 8280015-08
EXF 164/37; 164/162; 264/237; 264/485; 264/488
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Full
Text

References

radiation and melt treated ultra high molecular weight
polyethylene prosthetic devices
IN Merrill, Edward W., Belmont, MA, UNITED STATES

Bragdon, Charles R., Weymouth, MA, United States
O'Connor, Daniel O., East Taunton, MA, United States
Venugopalan, Premnath, Madras, India

PI US 1011077445 AI 200111074
AI US 10011-42166 AI 20010428 19
RLI Continuation of Ser. No. US 2000-572324, filed on 18 May 2000, PENDING
Continuation of Ser. No. US 1997-798638, filed on 11 Feb 1997, ABANDONED
Continuation-in-part of Ser. No. US 1996-726313, filed on 2 Oct 1996,
ABANDONED Continuation-in-part of Ser. No. US 1996-600744, filed on 13
Feb 1996, GRANTED, Pat. No. US 587840

PT Utility
FS APPLICATION
LN.CNT 235

INCL INCLM: 613 619.110
INCLS: 613 619.110; 623/020.110; 623/021.110; 623/022.110; 623/908.000;
613 611.000; 264/162.000; 264/485.000; 264/488.000; 264/494.000;
422 601.000

NCL NCLM: 613 619.110
NCLS: 613 619.110; 623/020.110; 623/021.110; 623/022.110; 623/908.000;
613 611.000; 264/162.000; 264/485.000; 264/488.000; 264/494.000;
422 601.000

IC [7]
ICM: A61P012-28
ICS: E19C015-06; A61P002-30

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 8 OF 8 USPATFULL

Full Text References

AN 1999:30091 USPATFULL
TI Melt-irradiated ultra high molecular weight polyethylene
prosthetic devices
IN Merrill, Edward W., Belmont, MA, United States
Harris, William H., Belmont, MA, United States
Venugopalan, Premnath, Cambridge, MA, United States
Jasty, Michael, Weston, MA, United States
Bragdon, Charles R., Weymouth, MA, United States
O'Connor, Daniel O., East Taunton, MA, United States
PA Massachusetts Institute of Technology, Cambridge, MA, United States
(U.S. Corporation)
The General Hospital Corporation, Boston, MA, United States (U.S.
Corporation)
PI US 1007941 1999 11 10
AI US 1008-11 744 1999 11 10
PT Utility
FS GRANTED
LN.CNT 400
INCL INCLM: 613 619.110
INCLS: 613/019.110; 613 19.110; 613 21.110; 613 31.110; 613 312.110
NCL NCLM: 613/022.11
NCLS: 613/390.110
IC [7]
ICM: A61P 12/04
EINF 613/019.110; 613/019.110; 613/019.110; 613/019.110; 613/019.110; 613/019.110

high molecular weight polyethylene or ultrahigh molecular weight polyethylene
which is melt-irradiated to form a cross-linked structure
the polyethylene and melt-irradiated

the irradiated

=> s 15 and free radical#
 L6 41 L5 AND FREE RADICAL#
 => s 16 and anneal? and heat?
 L7 39 L6 AND ANNEAL? AND HEAT?
 => s 17 and (crosslink? or cross-link?)
 L8 39 L7 AND (CROSSLINK? OR CROSS-LINK?)
 => s 18 and oxygen-free
 L9 15 L8 AND OXYGEN-FREE
 => s 19 and cool?
 L10 15 L9 AND COOL?
 => s 110 and packag? and steriliz?
 L11 10 L10 AND PACKAG? AND STERILIZ?
 => d 111 1-10

L11 ANSWER 1 OF 10 EUROPATEFULL COPYRIGHT 2003 WILA

Full
Text

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 963824 EUROPATEFULL ED 20000109 EW 199950 FS OS
 TIEN **Cross-linked** molded plastic bearings.
 TIDE Vernetzte, geformte Kunststofflager.
 TIFR Paliers moulés en plastique reticulée.
 IN McNulty, Donald E., 1263 N Shagbark Drive, Warsaw, Indiana 46580, US;
 Smith, Todd, 14510 Lightning Ridge Run, Fort Wayne, Indiana 46804, US
 PA DEPUY ORTHOPAEDICS, INC., 700 Orthopaedic Drive, Warsaw, Indiana 46581,
 US
 SO Wila-EPZ-1999-H50-T3a
 DS F AT; F BE; F CH; F CY; F DE; F DK; F ES; F FI; F FR; F GB; F GR; F IE;
 F IT; F LI; F LU; F MD; F NL; F PT; F SE; F AL; F LT; F LV; F MK; F PC;
 F SI
 PIT EPA2 EUROPÄISCHE PATENTANMELDUNG
 PI EP 963824 A2 19991215
 OF 19991215
 AI EP 1999 4497 1999 11
 FRAI EP 1999 4497 1999 11
 IS 1999 11
 IS 1999 11
 IS 1999 11
 IS 1999 11

L11 ANSWER 2 OF 10 EUROPATEFULL COPYRIGHT 2003 Univentis

Full
Text

AN 963824 EUROPATEFULL ED 20000109 EW 199950 FS OS
 TIEN A METHOD FOR THE PREPARATION OF CROSS-Linked PBI WITH AN ANTI-MIGRANT AND AN
 TIDE
 TIFR
 IN
 PA
 SO
 DS
 PIT
 PI
 OF
 AI
 FRAI
 IS
 IS
 IS
 IS

SJocVALL, Peter;
WESSLEN, Bengt
LA English
DT Patent
PI WO 1990049079 A1 19900824
DS W: AE AL AM AT AU AZ BA BB BG BF BY CA CH CN CU CZ DE DK EE ES
FI GB GL GE GH GM HP HU II IL IN IS JI KE KG KP KR KZ LC LK
LR LS LT LU LV ME MG MK MN MW MX NO NZ PL PT RO RU SL SE SG
SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW ZH ZM KE LS MW
SD SL SZ TZ UG ZW AM AZ BY BG KZ MD RU TJ TM AT BE CH CY DE
DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA
GN GW ML MR NE SN TI TG
AI WO 1990-SE3.4 A 20000217
PRAI SE 1989-990919-1 19890217
ICM C09K005-15
ICS A61B027-34; A61F002-30; C08L023-04

L11 ANSWER 3 OF 10 PCTFULL COPYRIGHT 2003 Univentis

Full
Text

AN 199001423 PCTFULL ED 20020514
TIEN PROCESS FOR MEDICAL IMPLANT OF CROSS-LINKED ULTRAHIGH
MOLECULAR WEIGHT POLYETHYLENE HAVING IMPROVED BALANCE OF WEAR
PROPERTIES AND OXIDATION RESISTANCE
TIFR PROCEDE DE FABRICATION DE PROTHESE MEDICALE EN POLYETHYLENE RETICULE A
FIBRES MOLECULAIRES TRES ELEVE A EQUILIBRE AMELIORE DES PROPRIETES A
L'USAGE ET DE RESISTANCE A L'OXYDATION
IN SAUM, Kenneth, Ashley;
SANFORD, William, Michael;
DIMAIO, William, Gerald, Jr.;
HOWARD, Edward, George, Jr.
PA E.I. DUPONT DE NEMOURS AND COMPANY
LA English
DT Patent
PI WO 19880409 A1 19880409
DS W: AL AM AU AZ BA BB BG BR BY CA CN CU CZ EE GE HU IE IL IS JP
KG KP KR KZ LC LK LR LT LV ME MG MK MN MX NO NZ PL RO RU SG
SI SK SL TJ TM TR TT UA UZ VN YU ZH ZM KE LS MW SL SZ UG ZW AM
AZ BY BG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT
LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
AI WO 1987 US 7776 A 19871002
PRAI US 1987 077,776 19861002
US 1987 077,776 1987-10
ICM A61B001-00
ICS A61B001-00

L11 ANSWER 4 OF 10 UNIPATEFULL

Full
Text

AN 2002123123 UNIPATEFULL
TI Method for the preparation of UHMWPE doped with an antioxidant and an
implant made thereof
IN Lidgren, Lars, Lund, JEWELIN
Bertilsson, Peter, JEWELIN

AI WO 2002 US 7776 A 19871002
PRAI US 1987 077,776 19861002
US 1987 077,776 1987-10
ICM A61B001-00
ICS A61B001-00

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FS          GRANTED
LN.CWT 443
INCL       INCLM: 524/110.000
           INCLS: 524 424.000
NCL        NCLM: 524 110.000
           NCLS: 524 424.000
IC          [7]
           ICM: 008K035-15
           ICS: 008K038-00
EXF        5240110; 524/424
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L11 ANSWER 5 OF 10 USPATFULL

Full
Text

Safe Zone

```

AN      2012:19919      USPTFULL
TI      Process for: medical implant of cross-linked ultrahigh  

molecular weight polyethylene having improved balance of wear  

        properties and oxidation resistance
IN      Sam, Kenneth Ashley, Newark, DE, UNITED STATES  

        Sanford, William Michael, Kennett Square, PA, UNITED STATES  

        Dimart, William Gerald, JR., Boothwyn, PA, UNITED STATES  

        Howard, Edward George, JR., Hockessin, DE, UNITED STATES
FI      US 2002107400      A1      20020803
AI      US 2001-56034      A1      20011029 (10)
RLI     Continuation of Ser. No. US 2000-638551, filed on 16 Oct 2000, PATENTED  

        Continuation of Ser. No. US 1999-422722, filed on 22 Oct 1999, PATENTED  

        Continuation of Ser. No. US 1997-911792, filed on 15 Aug 1997, PATENTED
FRAI    US 1996-27354P      19961002 (60)
FT      UTILITY
FS      APPLICATION
LN.CNT  903
INCL     INCL: 522 161.000
NCL      NCLM: 522 161.000
IC       [7]
         ICM: 00900 3-28
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

```

L11 ANSWER 4 OF 10 USPATFULL

Full
Text[illegible]

AN 000130586 USR04TEFULL
TI Wear resistant olefinic medical implant and thermal treatment
container therefor
IN Palmer, Robert, Lake Bluff, Ill., United States.
Attorney, Robert, Kingwood, Ill., United States.
Alfred, Richard, Lemont, Illinois, Ill., United States.
PA Implex Corp., United States (U.S. corporation)
PI US 6365215 B1 26020312
AI US 1999-266134 1999-031 1999-031
DT Utility
PC GRANTED
INT. INT. 1999-031
INT. INT. 1999-031

L11 ANSWER 7 OF 10 USPATEFULL

Full Text	References
-----------	------------

AN 2001:12:118: USPATEFULL

TI Process for **medical implant of cross-linked ultrahigh molecular weight polyethylene** having improved balance of wear properties and oxidation resistance

IN Baum, Kenneth Ashley, Newark, DE, United States
 Sanford, William Michael, Kennett Square, PA, United States
 Lohme, Jr., William Gerald, Boothwyn, PA, United States
 Howard, Jr., Edward George, Hockessin, DE, United States

PA DePuy Orthopaedics, Inc., Warsaw, IN, United States (U.S. corporation)

PI US 6316158 B1 20011113

AI US 2001-88-551 20001016 (9)

RLI Continuation of Ser. No. US 1999-422722, filed on 22 Oct 1999
 Continuation of Ser. No. US 1997-911792, filed on 15 Aug 1997, now patented, Pat. No. US 6017975, issued on 25 Jan 2000

DT Utility

FS GRANTED

LN.CNT 67

INCL INCLM: 430/130.000
 INCLS: 430/127.000; 430/627.000; 522/161.000; 522/184.000; 522/189.000;
 522/911.000; 522/912.000; 528/503.000; 623/011.000

NCL INCLM: 430/130.000
 INCLS: 430/127.000; 430/627.000; 522/161.000; 522/184.000; 522/189.000;
 522/911.000; 522/912.000; 528/503.000; 623/920.000

IC [7]
 ICM: 5083005-00
 ICS: 5083008-28

EXF 430/130; 430/127; 430/627; 522/161; 522/184; 522/189; 522/911; 522/912;
 528/503; 623/111

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 8 OF 10 USPATEFULL

Full Text	References
-----------	------------

AN 2001:182932: USPATEFULL

TI Process for **medical implant of cross-linked ultrahigh molecular weight polyethylene** having improved balance of wear properties and oxidation resistance

IN Baum, Kenneth Ashley, Newark, DE, United States
 Sanford, William Michael, Kennett Square, PA, United States
 Lohme, Jr., William Gerald, Boothwyn, PA, United States
 Howard, Jr., Edward George, Hockessin, DE, United States

PA DePuy Orthopaedics, Inc., Warsaw, IN, United States (U.S. corporation)

PI US 6342152 B1 20011113

AI US 1999-422722 19991222 (9)

RLI Continuation of Ser. No. US 1997-911792, filed on 15 Aug 1997, now patented, Pat. No. US 6017975

DT Utility

FS GRANTED

LN.CNT 64

EXF 430/130; 430/127; 430/627; 522/161; 522/184; 522/189; 522/911; 522/912;
 528/503; 623/111

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Full Text	Citing References
--------------	----------------------

AN 200:19964 USPATFULL

TI Process for: **medical implant of cross-linked ultrahigh molecular weight polyethylene** having improved balance of wear properties and oxidation resistance

IN Saur, Kenneth Ashley, 293 Wilson Rd., Newark, IE, United States 19711
Sant'ed, William Michael, 52 Fawn La., Kennett Square, PA, United States 19344
Dunlop, Jr., William Gerald, 1316 Longmeadow Rd., Boothwyn, PA, United States 19341
Howard, Jr., Edward George, 844 Old Public Rd., Hockessin, IE, United States 19707

PI US 4,179,735 28000125
AI US 4,237,411,792 19970615 (8)
PRAI US 4,136-1,745,411 19961002 (60)
DT Utility
FS Granted
LN.CNT 625
INCL INCLM: 522 161.000
INCLM: 522 184.000; 522/189.000; 522/911.000; 522/912.000; 528/503.000
NCL INCLM: 522 161.000
INCLM: 522 184.000; 522/189.000; 522/911.000; 522/912.000; 528/503.000
IC [6]
ICM: C08J083-28
EXF 528 503; 522/65; 522/71; 522/161; 522/189; 522/184; 522/911; 522/912
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 10 OF 10 USPATFULL

Full Text	Citing References
--------------	----------------------

AN 95:40985 USPATFULL

TI Non oxidizing polymeric **medical implant**

IN Sun, Deh-Shuan, Rockaway, NJ, United States
Stark, Casper E., Pompton Lakes, NJ, United States

PA Howmedica Inc., New York, NY, United States (U.S. corporation)

PI US 4,414,049 19950509
AI US 4,193-70074 19930601 (9)
ET Utility
FS Granted
LN.CNT 775
INCL INCLM: 525 433.7
INCLM: 522 433.7; 522 433.7; 522 433.7
NCL INCLM: 525 433.7
INCLM: 522 433.7; 522 433.7; 522 433.7
IC [6]
ICM: C08J083-28
EXF 433 433; 432 433; 432 433.7; 432 433.7
CAS INDEXING IS AVAILABLE FOR THIS PATENT.